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## WHAT IS CLAIM IS:

- 1. A method for displaying an image described by video words of a frame, the video words having bits with different bit ranks, said method comprising the steps of:
- (a) for each bit rank, turning pixels of a spatial light modulator on or off in accordance with values of the video words for the respective bit rank;
- (b) continuously exposing the spatial light modulator to light from a light source during substantially the entire time that step (a) is conducted; and
  - (c) driving the light source at energy levels that depend on the bit rank.
- 2. The method of claim 1, wherein the spatial light modulator is any LCD panel.
- 3. The method of claim 1, wherein the spatial light modulator is a digital micromirror device.
- 4. A method for displaying an image described by video words of a frame, the vide words having bits with different bit ranks, said method comprising the steps of:
- (a) for each bit rank, turning pixels of a spatial light modulator on or off in accordance with values of the video words for the respective bit rank; and
- (b) substantially continuously exposing the spatial light modulator to light that varies substantially in intensity while step (a) is conducted.
- 5. The method of claim 4, wherein the light has an intensity at one moment that is at least about twice its intensity at another moment.

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- 6. The method of claim 4, wherein the spatial light modulator is an LCD panel.
- 7. The method of claim 4, wherein the spatial light modulator is a digital 5 micromirror device.
  - 8. A method for displaying an image described by video words of a frame, the video words having bits with different bit ranks, said method comprising the steps of:
  - (a) for each bit rank, turning pixels of a digital micromirror device on or off in accordance with values of the video words for the respective bit rank;
    - (b) discontinuously exposing the digital micromirror device to briefduration flashes of light, the flashes having intensities that depend on the respective bit rank.
- 15 9. The method of claim 8, wherein the spatial light modulator is an LCD panel.
  - 10. The method of claim 8, wherein the spatial light modulator is a digital micromirror device.

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